Product data sheet

Specifications



master module, Modicon X80, upto 62 devices on discrete IO, upto 31 devices on analog IO

BMXEIA0100

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon X80
Product or Component Type	Master module
Actuator sensor interface profile [AS-i]	M4 master profile S7.3 slave profile S7.A.7 slave profile S7.A.A slave profile S7.A.8 slave profile S7.A.9 slave profile S6.0.X slave profile
Addressing	Standard and extended

Complementary

Cycle time	5 ms 31 10 ms 62
Electrical connection	1 male connector SUB-D, 3 pins
Number of server device(s)	124 server device(s) for discrete inputs and outputs - standard 124 server device(s) for analog inputs and outputs - standard 496 server device(s) for discrete inputs and outputs - extended 124 server device(s) for analog inputs and outputs - extended
Maximum cable distance between devices	328.08 ft (100 m) 656.2 ft (200 m) line extension 984.3 ft (300 m) 2 repeaters 1640.4 ft (500 m) 2 repeaters and the master at the middle
Local signalling	1 LED (green) for module active (RUN) 1 LED (red) for module error (ERR) 1 LED (green) for displays the group of 31 slaves (A/B) 1 LED (red) for I/O module fault (I/O) 32 LEDs for diagnostics of the AS-Interface and each slave 1 LED (green) for ASI power 1 LED (red) for fault
Current consumption	160 mA 3.3 V DC
Module format	Standard
Product Weight	0.75 lb(US) (0.34 kg)

Environment

Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive
Product certifications	CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Standards	IEC 61131-2 IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 IACS E10 IEC 61000-6-5, interface type 1 and type 2 IEC 61850-3, location G IEC 60079-0
Environmental characteristic	Hazardous location
Environmental characteristic	Hazardous location class I division 2
Ambient Air Temperature for Operation	32…140 °F (0…60 °C)
Ambient Air Temperature for Storage	-40…158 °F (-40…70 °C)
IP Degree of Protection	IP20

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3595864038032
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.9 in (7.4 cm)
Package 1 Width	4.3 in (11.0 cm)
Package 1 Length	5.0 in (12.7 cm)
Package weight(Lbs)	7.4 oz (210.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	7.05 lb(US) (3.2 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**38 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**14 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**24 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.3 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

Use Longer

Lifetime extension

Repair	**No**

Use Again

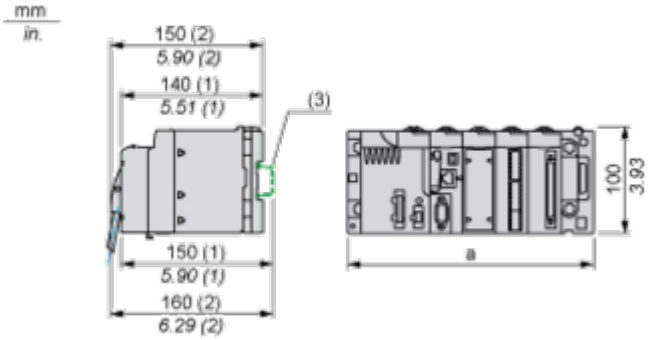
Repack and remanufacture

Recyclability potential, in %	**32**
Circularity Profile	**End of Life Information**
Take-back	**No**

Dimensions Drawings

Modules Mounted on Racks

Dimensions



(1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

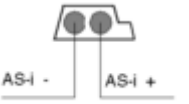
Connections and Schema

Connection to AS-Interface Bus

AS-Interface Bus Cables

AS-Interface bus cables carry the signals and supply the sensors and actuators connected to the bus with 30 V_{DC}.

Types of AS-Interface cables:

Cable Type	Specifications	Illustration
Flat, polarized AS-Interface ribbon cable	Color: yellow. Wire cross-section: 1.5 mm^2 (AWG 15)	
Standard round cable	Wire cross-section: 1.5 mm^2 (AWG 15) or 2.5 mm^2 (AWG 13)	

Wire colors:

- AS-i - is Blue
- AS-i + is Brown

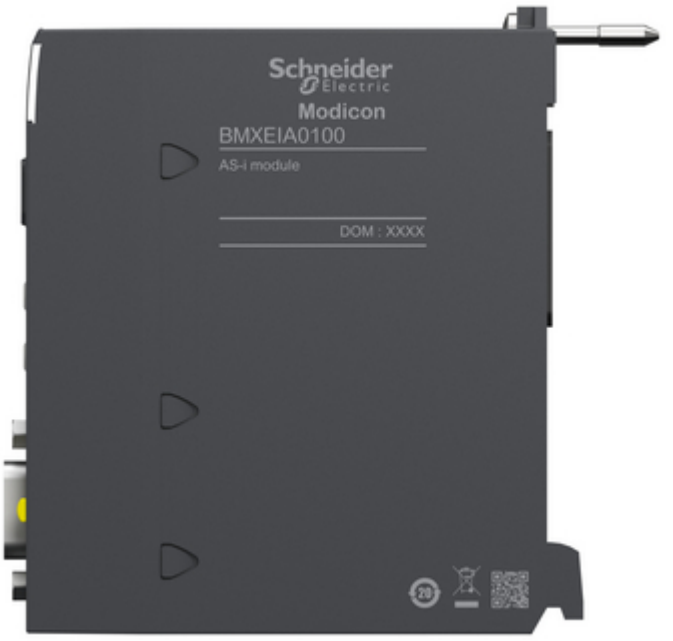
Recommended cable: Product reference H05VVF 2x1.5mm^2 (AWG 15) flat cable conforms to the DIN VDE 0281 standard.

Connector

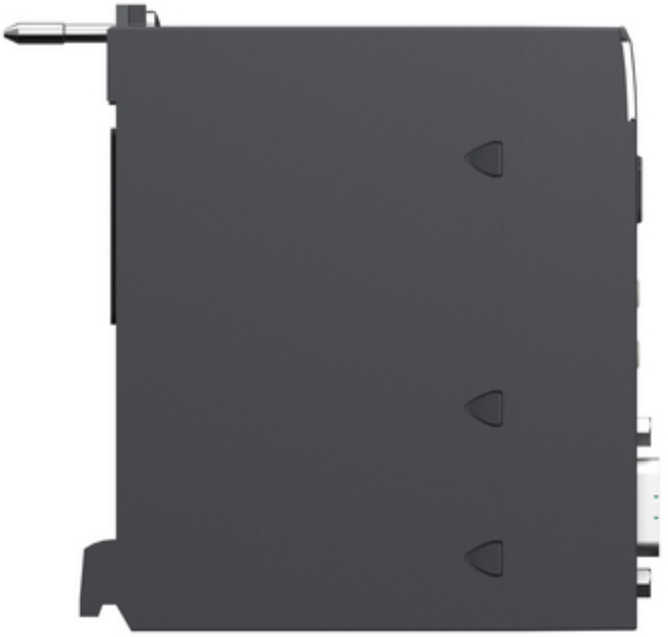
A connector-cover set is used to connect the module to the AS-Interface bus. This connector must be linked to the cable of the AS-Interface bus and assembled according to the procedure described in the user guide.

Image of product / Alternate images

Alternative










EIA0100
RUN
ERR
00 01 02 03 04 05 06 07
08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31
ASI PWR
FAULT
A/B
MODE
ASI-I +
ASI-I -

